

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Kenji KADOYA et al.

Serial No : Not Yet Assigned (National Phase of PCT/JP01/03671)

Filed : Concurrently Herewith (International Filing Date April 27, 2001)

For : HIGH FREQUENCY RELAY

PRELIMINARY AMENDMENT

Commissioner of Patents and Trademarks
Washington, D.C. 20231

Sir:

Prior to calculation of the filing fees and the examination of the above-identified patent application on the merits, the Examiner is respectfully requested to amend the claims as follows:

IN THE CLAIMS

Please amend the claims as follows (a marked-up copy of the claim amendments is provided as an attachment to this Amendment):

3. (Amended-Clean Text) The high frequency relay according to claim 1, wherein the armature swings with a central portion thereof as a fulcrum when any one of opposite end portions thereof is attracted to or repelled from the iron core, wherein the armature has a first surface confronting the electromagnet and a second surface opposite to the first surface, and also has a drive member secured to the second surface thereof and having a longitudinal length shorter than that of the

armature, and wherein a driving force from the armature is transmitted to the contacts via the drive member.

5. (Amended-Clean Text) The high frequency relay according to claim 1, wherein the pair of shielding members are joined together by an electrically conductive adhesive.

6. (Amended-Clean Text) The high frequency relay according to claim 1, further comprising contact support members for supporting the contacts in an insulated state and support members for supporting the contact support members to allow the contact support members to deflect in a direction perpendicular to the contact surfaces, wherein one of the pair of shielding members has insertion holes defined therein into which the contact support members are inserted, and wherein the support members have metallic shielding portions at locations corresponding to the insertion holes.

7. (Amended-Clean Text) The high frequency relay according to claim 1, further comprising contact support members made of an insulating material for supporting the contacts and support members for supporting the contact support members to allow the contact support members to deflect in a direction perpendicular to the contact surfaces, wherein the support members have

respective metallic support portions connected to one of the pair of shielding members.

8. (Amended-Clean Text) The high frequency relay according to claim 1, wherein the mounting surface is an external surface of one of the pair of shielding members.

9. (Amended-Clean Text) The high frequency relay according to claim 1, further comprising a casing wherein distal ends of the stationary terminals are positioned inside the casing.

10. (Amended-Clean Text) The high frequency relay according to claim 1, further comprising contact support members for supporting the contacts in an insulated state wherein the contact support members support the contacts in a direction substantially parallel to the mounting surface.

11. (Amended-Clean Text) The high frequency relay according to claim 1, wherein the pair of shielding members are formed into a desired shape by metal-injection molding.

12. (Amended-Clean Text) The high frequency relay according to claim 1, wherein the pair of shielding members are joined together by laser welding.

13. (Amended-Clean Text) The high frequency relay according to claim 1, wherein the stationary terminals comprise coil terminals connected to the coil, normally-closed stationary terminals, normally open stationary terminals pairing with the normally-closed stationary terminals, common stationary terminals connectable to either the normally-closed stationary terminals or the normally open stationary terminals, and wherein the normally-closed stationary terminal, the coil terminal, the common stationary terminal, the coil terminal, the normally open stationary terminal, the normally open stationary terminal, the coil terminal, the common stationary terminal, the coil terminal, and the normally-closed stationary terminal are arranged around one of the pair of shielding members in this order.

REMARKS

By the above amendment, the claims have been amended to delete multiple dependency.

If there should be any questions, the Examiner is invited to contact the undersigned at the telephone number listed below.

Respectfully submitted,
Kenji KADOYA et al.

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MARKED-UP COPY OF AMENDED CLAIMS

3. (Amended) The high frequency relay according to claim 1 [or 2], wherein the armature swings with a central portion thereof as a fulcrum when any one of opposite end portions thereof is attracted to or repelled from the iron core, wherein the armature has a first surface confronting the electromagnet and a second surface opposite to the first surface, and also has a drive member secured to the second surface thereof and having a longitudinal length shorter than that of the armature, and wherein a driving force from the armature is transmitted to the contacts via the drive member.

5. (Amended) The high frequency relay according to claim 1 [or 2], wherein the pair of shielding members are joined together by an electrically conductive adhesive.

6. (Amended) The high frequency relay according to claim 1 [or 2], further comprising contact support members for supporting the contacts in an insulated state and support members for supporting the contact support members to allow the contact support members to deflect in a direction perpendicular to the contact surfaces, wherein one of the pair of shielding members has insertion holes defined therein into which the contact support members are inserted, and wherein the support members have metallic shielding portions at locations corresponding to the insertion holes.

7. (Amended) The high frequency relay according to claim 1 [or 2], further comprising contact support members made of an insulating material for supporting the contacts and support members for supporting the contact support members to allow the contact support members to deflect in a direction perpendicular to the contact surfaces, wherein the support members have respective metallic support portions connected to one of the pair of shielding members.

8. (Amended) The high frequency relay according to claim 1 [or 2], wherein the mounting surface is an external surface of one of the pair of shielding members.

9. (Amended) The high frequency relay according to claim 1 [or 2], further comprising a casing wherein distal ends of the stationary terminals are positioned inside the casing.

10. (Amended) The high frequency relay according to claim 1 [or 2], further comprising contact support members for supporting the contacts in an insulated state wherein the contact support members support the contacts in a direction substantially parallel to the mounting surface.

11. (Amended) The high frequency relay according to claim 1 [or 2], wherein the pair of shielding members are formed into a desired shape by metal-injection molding.

12. (Amended) The high frequency relay according to claim 1 [or 2], wherein the pair of shielding members are joined together by laser welding.

13. (Amended) The high frequency relay according to claim 1 [or 2], wherein the stationary terminals comprise coil terminals connected to the coil, normally-closed stationary terminals, normally open stationary terminals pairing with the normally-closed stationary terminals, common stationary terminals connectable to either the normally-closed stationary terminals or the normally open stationary terminals, and wherein the normally-closed stationary terminal, the coil terminal, the common stationary terminal, the coil terminal, the normally open stationary terminal, the normally open stationary terminal, the coil terminal, the common stationary terminal, the coil terminal, and the normally-closed stationary terminal are arranged around one of the pair of shielding members in this order.

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REQUEST FOR EXAMINER APPROVAL OF DRAWING AMENDMENTCommissioner of Patents and Trademarks
Washington, D.C. 20231

Sir:

Attached hereto is a copy of a proposed amendment to Fig. 15 in which reference characters have been changed to correspond to the specification as shown in red.

The Examiner is respectfully requested to indicate approval of the entry of the proposed drawing amendment in the next Office action.

Respectfully submitted,
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Fig. 15

